

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,749	07/03/2003	Arthur M. Krieg	C01037.70041.US	6452
23628	7590 11/26/2004		EXAMINER	
WOLF GREENFIELD & SACKS, PC FEDERAL RESERVE PLAZA 600 ATLANTIC AVENUE			MINNIFIELD, NITA M	
			ART UNIT	PAPER NUMBER
BOSTON, MA 02210-2211		1645		

DATE MAILED: 11/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)				
	10/613,749	KRIEG, ARTHUR M.				
Office Action Summary	Examiner	Art Unit				
,	N. M. Minnifield	1645				
The MAILING DATE of this communication app	L					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>31 O</u>	october 2003.					
2a)☐ This action is FINAL . 2b)☒ This						
3) Since this application is in condition for alloward)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>See Continuation Sheet</u> is/are pendir 4a) Of the above claim(s) is/are withdraw 5)□ Claim(s) is/are allowed. 6)□ Claim(s) is/are rejected. 7)□ Claim(s) is/are objected to. 8)⊠ Claim(s) <u>See Continuation Sheet</u> are subject to	wn from consideration.	rement.				
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burear * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

Application No. 10/613,749

Continuation Sheet (PTOL-326)

Continuation of Disposition of Claims: Claims pending in the application are 1-21,23,28-33,44,46-58,64-66,71-74,77-81,84,85, 89,90,,95,96,98 and 99.

Continuation of Disposition of Claims: Claims subject to restriction and/or election requirement are 1-21,23,28-33,44,46-58,64-66,71-74,77-81,84,85,89, 90, 95,96,98 and 99.

Art Unit: 1645

DETAILED ACTION

1. Applicant's preliminary amendment filed October 31, 2003 is acknowledged and has been entered. Claims 22, 24-27, 34-43, 45, 59-63, 67-70, 75, 76, 82, 83, 86-88, 91-94 and 97 have been canceled. Claim 95 has been amended. Claims 1-21, 23, 28-33, 44, 46-58, 64-66, 71-74, 77-81, 84, 85, 89, 90, 95, 96, 98 and 99 are now pending in the present application.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-5, 8-21, 23, 28-33 and 44, drawn to a composition, classified in class 536, subclass 23.1, 22.1.
 - II. Claims 1, 3, 6 and 7, drawn to a composition, classified in class 536, subclass 23.7, 23.72.
 - III. Claims 46-58, 64-66, 71-74, 77-81, 84, 85, 89, 90, 95, 96 and 98 drawn to a method of stimulating an immune response, classified in class 514, subclass 44.
 - IV. Claim 99, drawn to a method for identifying an immunostimulatory nucleic acid, classified in class 435, subclass 6.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are patentably distinct products. The composition of Invention I comprises the immunostimulatory nucleic acid and a protein antigen. The composition of Invention II comprises the immunostimulatory nucleic acid and antigen is encoded by a nucleic acid vector. The inventions have a different

Art Unit: 1645

modes of operation and different functions when administered to a subject or used in *in vitro* methods.

Inventions III and IV are patentably distinct methods. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions, methods, are not disclosed as capable of use together. The two different methods, Invention III an *in vivo* method and Invention IV an *in vitro* method, have different modes of operation, different functions, or different effects. The distinct methods comprise distinct steps and utilize distinct products, which demonstrates that each method has a different mode of operation.

Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the composition of Invention I can be used in a materially different process of using that product and the method of Invention III, process for using the product, as claimed can be practiced with another materially different product.

Inventions I and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case composition of Invention I can be used in a materially different

Art Unit: 1645

process of using that product and the method of Invention IV, process for using the product, as claimed can be practiced with another materially different product.

Inventions II and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case composition of Invention II can be used in a materially different process of using that product and the method of Invention III, process for using the product, as claimed can be practiced with another materially different product.

Inventions II and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case composition of Invention II can be used in a materially different process of using that product and the method of Invention IV, process for using the product, as claimed can be practiced with another materially different product.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Art Unit: 1645

Because these inventions are distinct for the reasons given above and the search required for one Group is not required for another Group, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

3. This application contains claims directed to the following patentably distinct species of the claimed invention:

If Applicant elects Invention I:

please elect one specific antigen, see claims 3-5 and 8; and please elect one specific therapeutic agent, see claims 12-15.

If Applicant elects Invention III:

please elect one specific infection, see claims 47-53; please elect one specific antigen, see claims 55-57; and please elect one specific therapeutic agent, see claims 64-66.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, antigen, infection and therapeutic agent are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added.

Art Unit: 1645

An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to N. M. Minnifield whose telephone number is 571-272-0860. The examiner can normally be reached on M-F (8:00-5:30) Second Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynette R.F. Smith can be reached on 571-272-0864. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1645

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

Art Unit 1645

NMM

November 21, 2004